L Number	Hits	Search Text	DB	Time stamp
1	195	Direct$1IO AND @ad<19991124	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/07 08:26
-	8	large$1scale ADJ data SAME visual$8	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/03 14:57
-	4	(large$1scale ADJ data SAME visual$8) AND @ad<20001124	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/03 14:58
-	220	large ADJ data SAME visual$8	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/03 14:57
-	123	(large ADJ data SAME visual$8) AND (real$1time on$1line)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/03 14:58
-	79	((large ADJ data SAME visual$8) AND (real$1time on$1line)) AND @ad<20001124	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/03 14:58
-	61	(((large ADJ data SAME visual$8) AND (real$1time on$1line)) AND @ad<20001124) AND format$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/03 14:59
-	12	((((large ADJ data SAME visual$8) AND (real$1time on$1line)) AND @ad<20001124) AND format$3) AND pixel AND three$1dimension$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/04 08:39
-	12	((((large ADJ data SAME visual$8) AND (real$1time on$1line)) AND @ad<19991124) AND format$3) AND pixel AND three$1dimension$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/04 14:15
-	12	((((large ADJ data SAME visual$8) AND (real$1time on$1line)) AND @ad<19991124) AND format$3) AND pixel AND three$1dimension$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/06 17:07
-	48414	visualiz$8 AND data AND direct IO	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/06 16:47
-	1	visualiz$8 AND data AND direct ADJ IO	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/06 16:57
-	0	data AND direct$1IO AND image WITH visualiz$5	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/06 16:59

-	1	data AND direct$1IO AND image SAME visualiz$6	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/06 17:00
-	0	((((large ADJ data SAME visual$8) AND (real$1time on$1line)) AND @ad<19991124) AND format$3) AND pixel AND three$1dimension$3 AND direct$1IO	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/06 17:10
-	2	((((large ADJ data SAME visual$8) AND (real$1time on$1line)) AND @ad<19991124) AND format$3) AND pixel AND three$1dimension$3 AND data NEAR5 stream	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/06 17:11
-	228	Direct$1IO	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/06 17:20
-	6	Direct$1IO SAME image$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/06 17:49
-	0	(Direct$1IO SAME (image$3 graphic$3)) NOT (Direct$1IO SAME image$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/06 17:43

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1 Raycasting vector fields 85%
Thomas Frühauf
Proceedings of the conference on Visualization '96 October 1996

2 Visualization for situation awareness 82%
C. M. Hoffman , Y.-J. Kim , R. P. Winkler , J. D. Walrath , P. J. Emmerman
Proceedings of the 1998 workshop on New paradigms in information visualization and manipulation November 1998

3 Device and library: OpenVL: the open volume library 80%
Sarang Lakare , Arie Kaufman
Proceedings of the 2003 Eurographics/IEEE TVCG Workshop on Volume graphics July 2003
OpenVL is a modular, extensible, and high performance library for handling volumetric datasets. It provides a standard, uniform, and easy to use API for accessing volumetric data. It allows the volumetric data to be laid out in different ways to optimize memory usage and speed. It supports reading/writing of volumetric data from/to files in different formats using plugins. It provides a framework for implementing various algorithms as plugins that can be easily incorporated into user application ...

4 Human-computer communication meets software engineering 80%
C. Rathke
Proceedings of the 9th international conference on Software Engineering March 1987
A contemporary software engineering problem is to adapt an existing piece of software to a new interface technology.We describe the process of integrating a software engineering tool with a window-based direct manipulation interface. Four stages of this process are described -

from a simple integration to a fully integrated system in which it becomes hard to separate properties of the tool from those of the interface.We take advantage of WLISP, an object-oriented, know ...

5 Efficient and precise solid modelling using a 3D input device 80%
André Stork , Martin Maidhof
Proceedings of the fourth ACM symposium on Solid modeling and applications May 1997

6 The VSBUFFER: visibility ordering of unstructured volume primitives by polygon drawing 80%
Rüdiger Westermann , Thomas Ertl
Proceedings of the conference on Visualization '97 October 1997

7 ITS: a tool for rapidly developing interactive applications 77%
Charles Wiecha , William Bennett , Stephen Boies , John Gould , Sharon Greene
ACM Transactions on Information Systems (TOIS) July 1990
Volume 8 Issue 3
The ITS architecture separates applications into four layers. The action layer implements back-end application functions. The dialog layer defines the content of the user interface, independent of its style. Content specifies the objects included in each frame of the interface, the flow of control among frames, and what actions are associated with each object. The style rule layer defines the presentation and behavior of a family of interaction techniques. Finally, the style program layer i ...

8 A structure for interprocess communication in a data communications handler 77%
H. F. Tibbals
Proceedings of the annual conference October 1976
The use of an implementation which models a simple single server queuing system to control transfers between processes in a communications handler is described. Exchanges between processes are carried by three word elements, called LINKs, which are used to transfer control information and to assign data to processes. The managements of interactions by the single queue structure is used to coordinate parallel, time-independent operation of the attached processes, with the interface provided ...

9 Comparing representations with relational and EER models 77%
D. Batra , J. A. Hoffler , R. P. Bostrom
Communications of the ACM February 1990
Volume 33 Issue 2
The diffusion of technology to end users who can now develop their own information systems raises issues concerning the cost, quality, efficiency, and accuracy of such systems.

10 A gesture based user interface prototyping system 77%
R. B. Dannenberg , D. Amon
Proceedings of the 2nd annual ACM SIGGRAPH symposium on User interface software and technology November 1989
GID, for Gestural Interface Designer, is an experimental system for prototyping gesture-based user interfaces. GID structures an interface as a collection of “controls”: objects that maintain an image on the display and respond to input from pointing and gesture-sensing

devices. GID includes an editor for arranging controls on the screen and saving screen layouts to a file. Once an interface is created, GID provides mechanisms for routing input to the appropriate destination obj ...

11 Building user interfaces by direct manipulation 77%
Luca Cardelli
Proceedings of the 1st annual ACM SIGGRAPH symposium on User Interface Software January 1988

12 Special issue on spatial database systems: A semantic modeling approach for image retrieval by content 77%
Wesley W. Chu , Ion T. Ieong , Ricky K. Taira
The VLDB Journal — The International Journal on Very Large Data Bases October 1994
Volume 3 Issue 4
We introduce a semantic data model to capture the hierarchical, spatial, temporal, and evolutionary semantics of images in pictorial databases. This model mimics the user's conceptual view of the image content, providing the framework and guidelines for preprocessing to extract image features. Based on the model constructs, a spatial evolutionary query language (SEQL), which provides direct image object manipulation capabilities, is presented. With semantic information captured in the model, spa ...

13 Session 4: big stuff: Large haptic topographic maps: marsview and the proxy graph algorithm 77%
Sean P. Walker , J. Kenneth Salisbury
Proceedings of the 2003 symposium on Interactive 3D graphics April 2003
In this paper we develop an interactive 3D browser for large topographic maps using a visual display augmented by a haptic, or force feedback, display. The extreme size of our data files (over 100 million triangles) requires us to develop the "proxy graph algorithm", a new haptic contact model. The proxy graph algorithm approximates proven virtual proxy methods but enhances the performance significantly by restricting the proxy location to the edges and vertices of the object. The resulting algo ...

14 Mondrian memory protection 77%
Emmett Witchel , Josh Cates , Krste Asanovi?
Tenth international conference on architectural support for programming languages and operating systems on Proceedings of the 10th international conference on architectural support for programming languages and operating systems (ASPLOS-X) October 2002
Volume 37 , 30 , 36 Issue 10 , 5 , 5
Mondrian memory protection (MMP) is a fine-grained protection scheme that allows multiple protection domains to flexibly share memory and export protected services. In contrast to earlier page-based systems, MMP allows arbitrary permissions control at the granularity of individual words. We use a compressed permissions table to reduce space overheads and employ two levels of permissions caching to reduce run-time overheads. The protection tables in our implementation add less than 9% overhead to ...

15 Functions of sketching in design idea generation meetings 77%
Remko van der Lugt
Proceedings of the fourth conference on Creativity & cognition October 2002

This study consists of four experimental meetings, which explore whether functions of sketching in design activity are also valid for idea generation meetings in design. The relevant functions of sketching found in theory are: 1) supporting a re-interpretive cycle in the individual thinking process, 2) supporting re-interpretation of each other's ideas in group activity, and 3) enhancing the access to earlier ideas. The results provide some support for the first and the third function. No suppor ...

16 SICCAPH 1 - Computers in the service of the handicapped - some issues and answers: System study of a dial-up text reading service for the blind 77%

John H. Munson

Proceedings of the ACM annual conference - Volume 1 August 1972

This paper describes a recent feasibility study of a system concept that could allow blind persons access on demand to the printed page. A portable, user-controlled scanner, based on the Optacon direct-translation reading aid, would collect image information from any printed text for presentation to a computer and optical character recognition unit, remotely connected via dial-up telephone lines. The OCR unit would recognize the letters of the text, the computer would assemble them into words an ...

17 Blink response, visual attention, and the www: Visual attention to repeated internet images: testing the scanpath theory on the world wide web 77%

Sheree Josephson , Michael E. Holmes

Proceedings of the symposium on ETRA 2002: eye tracking research & applications symposium March 2002

The somewhat controversial and often-discussed theory of visual perception, that of scanpaths, was tested using Web pages as visual stimuli. In 1971, Noton and Stark defined "scanpaths" as repetitive sequences of fixations and saccades that occur upon re-exposure to a visual stimulus, facilitating recognition of that stimulus. Since Internet users are repeatedly exposed to certain visual displays of information, the Web is an ideal stimulus to test this theory. Eye-movement measures were recorde ...

18 Office-by-example: an integrated office system and database manager 77%

Kyu-Young Whang , Art Ammann , Anthony Bolmarcich , Maria Hanrahan , Guy Hochgesang , Kuan-Tsae Huang , Al Khorasani , Ravi Krishnamurthy , Gary Sockut , Paula Sweeney , Vance Waddle , Moshé Zloof

ACM Transactions on Information Systems (TOIS) October 1987

Volume 5 Issue 4

Office-by-Example (OBE) is an integrated office information system that has been under development at IBM Research. OBE, an extension of Query-by-Example, supports various office features such as database tables, word processing, electronic mail, graphics, images, and so forth. These seemingly heterogeneous features are integrated through a language feature called example elements. Applications involving example elements are processed by the database manager, an integrated ...

19 Maniplicons in ThinkerToy 77%

Steven H. Gutfreund

ACM SIGPLAN Notices , Conference proceedings on Object-oriented programming systems, languages and applications December 1987

Volume 22 Issue 12

ThinkerToy is a graphical environment for modeling decision support problems. It provides a tableau on which such problems as landscape planning, service scheduling, and statistical analysis can be modeled and analyzed. Normally, complex mathematical and statistical modeling techniques are needed to perform meaningful analysis. ThinkerToy uses graphical icons with concrete physical properties to replace mathematical relationships and properties. The key construct in this methodology is the ...

20 Authoring Support: Designing annotation before it's needed 77%

Frank Nack , Wolfgang Putz

Proceedings of the ninth ACM international conference on Multimedia October 2001

This paper considers the automated and semi-automated annotation of audiovisual media in a new type of production framework, A4SM (Authoring System for Syntactic, Semantic and Semiotic Modelling). We present the architecture of the framework and outline the underlying XML-Schema based content description structures of A4SM. We then describe tools for a news and demonstrate how video material can be annotated in real time and how this information can not only be used for retrieval but also can be ...

Results 1 - 20 of 99 short listing

Prev Page 1 2 3 4 5 Next Page

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